


Keith J. Kaplan
Luigi K.F. Rao
Editors

Digital Pathology

Historical Perspectives,
Current Concepts &
Future Applications

 Springer

Book And Digital Pathology Historical Perspectives Applications

Carin A. Hagberg



Book And Digital Pathology Historical Perspectives Applications:

Digital Pathology Keith J. Kaplan, Luigi K.F. Rao, 2015-10-23 Digital Pathology Historical Perspectives Current Concepts Future Applications provides the authoritative text in the digital pathology domain by combining the established expertise of leaders in this diverse arena with practical applications of this transformative platform while harnessing a content rich interactive format In detailing a cohesive narrative from a broad global perspective the lessons learned from the past the obstacles to digital pathology adoption that have been overcome and the challenges that remain for full realization of the potential that computational analysis affords this text provides readers with the latest in where the field is heading as it seeks to unlock the potential of digital pathology by leveraging cutting edge technologies and innovative tools Digital Pathology Historical Perspectives Current Concepts Future Applications will be of great value to Pathologists including Translational Researchers and Informaticists Pathology Trainees including Residents and Informatics Fellows Healthcare CMIOs and CIOs Bioimaging Engineers and Computer Vision Scientists as well as Laboratory Information Technologists [Whole Slide Imaging](#) Anil V. Parwani, 2021-10-29 This book provides up to date and practical knowledge in all aspects of whole slide imaging WSI by experts in the field This includes a historical perspective on the evolution of this technology technical aspects of making a great whole slide image the various applications of whole slide imaging and future applications using WSI for computer aided diagnosis The goal is to provide practical knowledge and address knowledge gaps in this emerging field This book is unique because it addresses an emerging area in pathology for which currently there is only limited information about the practical aspects of deploying this technology For example there are no established selection criteria for choosing new scanners and a knowledge base with the key information The authors of the various chapters have years of real world experience in selecting and implementing WSI solutions in various aspects of pathology practice This text also discusses practical tips and pearls to address the selection of a WSI vendor technology details implementing this technology and provide an overview of its everyday uses in all areas of pathology Chapters include important information on how to integrate digital slides with laboratory information system and how to streamline the digital workflow with the intent of saving time saving money reducing errors improving efficiency and accuracy and ultimately benefiting patient outcomes Whole Slide Imaging Current Applications and Future Directions is designed to present a comprehensive and state of the art approach to WSI within the broad area of digital pathology It aims to give the readers a look at WSI with a deeper lens and also envision the future of pathology imaging as it pertains to WSI and associated digital innovations **Rosai and Ackerman's Surgical Pathology E-Book** Juan Rosai, 2011-06-20 Rosai and Ackerman's Surgical Pathology delivers the authoritative guidance you need to overcome virtually any challenge in surgical pathology Recognized globally for his unmatched expertise preeminent specialist Juan Rosai MD brings you state of the art coverage of the latest advancements in immunohistochemistry genetics molecular biology prognostic predictive markers and much more equipping you to effectively

and efficiently diagnose the complete range of neoplastic and non neoplastic entities Efficiently review the clinical presentation gross and microscopic features ultrastructural and immunohistochemical findings differential diagnosis therapy and prognosis for virtually every pathologic entity Compare your findings to more than 3 300 outstanding illustrations that capture the characteristic presentation of every type of lesion Avoid diagnostic pitfalls using Dr Rosai s expert observations on what to look for what to be careful about and which presentations can be misleading Find quick answers on tumor staging quality control procedures and the handling of gross specimens through valuable appendices Make optimal use of all the very latest advances including our increased understanding of the genetic basis of inherited and acquired disease the newest molecular genetic and immunohistochemical techniques and the most recent WHO disease classification schemes

Perspectives on Artificial Intelligence in Times of Turbulence: Theoretical Background to Applications Geadar, Nuno, Jamil, George Leal, 2023-11-17 Perspectives on Artificial Intelligence in Times of Turbulence Theoretical Background to Applications offers a comprehensive exploration of the intricate relationship between artificial intelligence AI and the ever changing landscape of our society The book defines AI as machines capable of performing tasks that were once exclusive to human cognition However it emphasizes the current limitations of AI dispelling the notion of sophisticated cyborgs depicted in popular culture These machines lack self awareness struggle with understanding context especially in language and are constrained by historical data and predefined parameters This distinction sets the stage for examining AI s impact on the job market and the evolving roles of humans and machines Rather than portraying AI as a threat this book highlights the symbiotic relationship between humans and machines It recognizes that while certain jobs may become obsolete new opportunities will emerge The unique abilities of human beings such as relational skills emotional intelligence adaptability and understanding of differences will continue to be indispensable in a rapidly transforming society Its perspectives cover a wide range of topics such as business sustainability change management cybersecurity digital economy and transformation information systems management management models and tools and continuous improvement are comprehensively addressed Additionally the book delves into healthcare telemedicine Health 4 0 privacy and security knowledge management learning and presents real world case studies Designed for researchers and professionals seeking to enhance their knowledge and research capabilities this book offers a consistent theoretical and practical foundation It serves as a springboard for further studies supports change management initiatives within organizations and facilitates knowledge sharing among experts This book is an essential companion for colleges with master s and Ph D degree investigators and researchers across a wide range of disciplines

Artificial Intelligence and Deep Learning in Pathology Stanley Cohen, 2020-06-02 Recent advances in computational algorithms along with the advent of whole slide imaging as a platform for embedding artificial intelligence AI are transforming pattern recognition and image interpretation for diagnosis and prognosis Yet most pathologists have just a passing knowledge of data mining machine learning and AI and little exposure to

the vast potential of these powerful new tools for medicine in general and pathology in particular In Artificial Intelligence and Deep Learning in Pathology Dr Stanley Cohen covers the nuts and bolts of all aspects of machine learning up to and including AI bringing familiarity and understanding to pathologists at all levels of experience Focuses heavily on applications in medicine especially pathology making unfamiliar material accessible and avoiding complex mathematics whenever possible Covers digital pathology as a platform for primary diagnosis and augmentation via deep learning whole slide imaging for 2D and 3D analysis and general principles of image analysis and deep learning Discusses and explains recent accomplishments such as algorithms used to diagnose skin cancer from photographs AI based platforms developed to identify lesions of the retina using computer vision to interpret electrocardiograms identifying mitoses in cancer using learning algorithms vs signal processing algorithms and many more

Ocular Pathology - E-Book Myron Yanoff, Joseph W. Sassani, 2023-12-22 Selected for Doody's Core Titles 2024 in Ophthalmology For nearly 50 years Ocular Pathology has been the choice of both ophthalmologists and pathologists for unsurpassed visual guidance and training in ophthalmic pathology Expertly edited by Drs Myron Yanoff and Joseph W Sassani this thoroughly revised 9th Edition provides comprehensive easy to understand coverage of the eye's response to disease and treatment keeping you up to date with every aspect of the field From current imaging techniques to genetics and molecular biology to clinical pearls Ocular Pathology provides the concise yet complete information you need Features more than 1 900 high quality clinical photographs illustrations and histological micrographs from the collections of internationally renowned leaders in ocular pathology Presents information in a quick reference outline format ideal for today's busy physician Includes clinico pathological correlations throughout with side by side image comparisons further highlighted with clinical pearl boxes Covers the latest imaging techniques including optical coherence tomography OCT anterior segment OCT AS OCT and OCT angiography OCT A Provides new coverage on evolving areas such as genetics and molecular biology SARS COV 2 virus COVID 19 multiple endocrine neoplasia iris racemose hemangioma white dot syndromes idiopathic polypoidal choroidal vasculopathy and more Additional digital ancillary content may publish up to 6 weeks following the publication date

Gleason Grading of Prostate Cancer: A Modern Perspective Pasquale De Marco, 2025-07-15 Gleason Grading of Prostate Cancer A Modern Perspective is a comprehensive and up to date guide to the diagnosis and grading of prostate cancer This essential resource provides healthcare professionals with the knowledge and tools they need to accurately assess prostate cancer and make informed treatment decisions The book begins by introducing the basics of prostate cancer including its risk factors screening techniques and treatment options It then delves into the history principles and components of the Gleason grading system the primary method used to grade prostate cancer The book explores the practical application of Gleason grading in contemporary pathology covering advances in tissue processing molecular markers digital pathology and artificial intelligence Gleason Grading of Prostate Cancer A Modern Perspective also addresses controversies and future directions in the field examining interobserver variability molecular

subtyping and the integration of novel technologies It explores the use of Gleason grading in special situations such as small biopsy specimens and metastatic lesions Furthermore the book highlights the importance of quality assurance and standardization in Gleason grading discussing proficiency testing guidelines and educational programs The book concludes by examining the prognostic and predictive value of Gleason grading its impact on patient outcomes and quality of life and its role in research and clinical trials It also explores emerging technologies and treatment modalities that hold promise for improving Gleason grading and prostate cancer management Written by leading experts in the field Gleason Grading of Prostate Cancer A Modern Perspective is an essential resource for pathologists urologists oncologists and researchers seeking to enhance their understanding of prostate cancer grading With its comprehensive coverage this book provides a solid foundation for advancing knowledge and improving patient care in this critical area of oncology If you like this book write a review

Digital Anatomy Jean-François Uhl, Joaquim Jorge, Daniel Simões Lopes, Pedro F. Campos, 2021-05-14 This book offers readers fresh insights on applying Extended Reality to Digital Anatomy a novel emerging discipline Indeed the way professors teach anatomy in classrooms is changing rapidly as novel technology based approaches become ever more accessible Recent studies show that Virtual VR Augmented AR and Mixed Reality MR can improve both retention and learning outcomes Readers will find relevant tutorials about three dimensional reconstruction techniques to perform virtual dissections Several chapters serve as practical manuals for students and trainers in anatomy to refresh or develop their Digital Anatomy skills We developed this book as a support tool for collaborative efforts around Digital Anatomy especially in distance learning international and interdisciplinary contexts We aim to leverage source material in this book to support new Digital Anatomy courses and syllabi in interdepartmental interdisciplinary collaborations Digital Anatomy Applications of Virtual Mixed and Augmented Reality provides a valuable tool to foster cross disciplinary dialogues between anatomists surgeons radiologists clinicians computer scientists course designers and industry practitioners It is the result of a multidisciplinary exercise and will undoubtedly catalyze new specialties and collaborative Master and Doctoral level courses world wide In this perspective the UNESCO Chair in digital anatomy was created at the Paris Descartes University in 2015 www.anatomieunesco.org It aims to federate the education of anatomy around university partners from all over the world wishing to use these new 3D modeling techniques of the human body

Genitourinary Pathology, An Issue of Surgical Pathology Clinics, E-Book Ming Zhou, 2022-11-09 In this issue of Surgical Pathology Clinics guest editor Dr Ming Zhou brings his considerable expertise to the topic of Genitourinary Pathology Top experts in the field cover key topics such as prostate cancer update on grading and reporting cribriform lesions of the prostate urothelial carcinoma divergent differentiation and variants kidney tumors new developments in existing WHO kidney tumor entities and more Contains 13 relevant practice oriented topics including testicular tumors new developments in germ cell tumors and sex cord stromal tumors computational pathology in genitourinary pathology molecular genetics of prostate cancer and role of genomic testing

evolving role of multiparametric MRI in prostate cancer diagnosis and reporting and more Provides in depth clinical reviews on current topics in genitourinary pathology offering actionable insights for clinical practice Presents the latest information on this timely focused topic under the leadership of experienced editors in the field Authors synthesize and distill the latest research and practice guidelines to create clinically significant topic based reviews Diagnostic Pathology: Intraoperative Consultation E-Book Susan C. Lester, 2019-05-10 Part of the highly regarded Diagnostic Pathology series this updated volume by Dr Susan Lester is uniquely organized according to the specific questions from surgeons that a pathologist needs to address during time limited intraoperative consultations Concise focused chapters supported by tables diagrams radiographs and photographs provide the essential information needed for optimal intraoperative diagnosis A new feature of the 2nd edition is video instruction for frozen section techniques Separate chapters cover more than 60 questions posed by surgeons during intraoperative consultations in addition to general introductory and methods chapters More than 1 700 outstanding images Time saving reference features include bulleted text tables of diagnostic criteria annotated images and an extensive index Thoroughly updated content in every chapter includes new criteria for diagnosis e g limiting surgery for some types of lung lesions more information on gross evaluation of specimens and additional photographs for many diagnoses New chapters include new techniques such as image guided lung resections finding and safely handling radioactive seeds for breast biopsies tissue banking techniques nipple margin evaluation for nipple sparing mastectomy and evaluation of specimens from patients with epilepsy Expert Consult™ eBook version included with purchase This enhanced eBook experience allows you to search all of the text figures and references from the book on a variety of devices Youmans and Winn Neurological Surgery E-Book H. Richard Winn, 2022-01-21 Widely regarded as the definitive reference in the field Youmans and Winn Neurological Surgery offers unparalleled multimedia coverage of the entirety of this complex specialty Fully updated to reflect recent advances in the basic and clinical neurosciences the 8th Edition covers everything you need to know about functional and restorative neurosurgery deep brain stimulation stem cell biology radiological and nuclear imaging and neuro oncology as well as minimally invasive surgeries in spine and peripheral nerve surgery and endoscopic and other approaches for cranial procedures and cerebrovascular diseases In four comprehensive volumes Dr H Richard Winn and his expert team of editors and authors provide updated content a significantly expanded video library and hundreds of new video lectures that help you master new procedures new technologies and essential anatomic knowledge in neurosurgery Discusses current topics such as diffusion tensor imaging brain and spine robotic surgery augmented reality as an aid in neurosurgery AI and big data in neurosurgery and neuroimaging in stereotactic functional neurosurgery 55 new chapters provide cutting edge information on Surgical Anatomy of the Spine Precision Medicine in Neurosurgery The Geriatric Patient Neuroanesthesia During Pregnancy Laser Interstitial Thermal Therapy for Epilepsy Fetal Surgery for Myelomeningocele Rehabilitation of Acute Spinal Cord Injury Surgical Considerations for Patients with Polytrauma

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Curtin, 2011-04-11 *Head and Neck Imaging* by Drs Peter M Som and Hugh D Curtin delivers the encyclopedic and authoritative guidance you've come to expect from this book the expert guidance you need to diagnose the most challenging disorders using today's most accurate techniques New state of the art imaging examples throughout help you recognize the imaging presentation of the full range of head and neck disorders using PET CT MRI and ultrasound Enhanced coverage of the complexities of embryology anatomy and physiology including original color drawings and new color anatomical images from Frank Netter help you distinguish subtle abnormalities and understand their etiologies Compare your imaging findings to thousands of crystal clear examples representing every type of head and neck disorder Gain an international perspective from global authorities in the field Find information quickly with a logical organization by anatomic region Master the latest approaches to image guided biopsies and treatments Utilize PET CT scanning to its fullest potential including head and neck cancer staging treatment planning and follow up to therapy Visualize head and neck anatomy better than ever before with greatly expanded embryology physiology and anatomy content including original drawings and new color anatomical images Grasp the finer points of head and neck imaging quickly with more images more detail in the images and more anatomic atlases with many examples of anatomic variants Access the complete content and illustrations online at www.expertconsult.com fully searchable *Anesthesia E-Book* Ronald D. Miller, Lars I. Eriksson, Lee A Fleisher, Jeanine P.

Wiener-Kronish, William L. Young, 2009-06-24 From fundamental principles to advanced subspecialty procedures Miller's *Anesthesia* covers the full scope of contemporary anesthesia practice It is the go to reference for masterful guidance on the technical scientific and clinical challenges you face Now new chapters new authors meticulous updates an increased international presence and a new full color design ensure that the 7th edition continues the tradition of excellence that you depend on Covers the full scope of contemporary anesthesia practice Offers step by step instructions for patient management and an in depth analysis of ancillary responsibilities and problems Incorporates Key Points boxes in every chapter that highlight important concepts Extends the breadth of international coverage with contributions from prominent anesthesiologists from all over the world including China India and Sweden Features 30 new authors and 13 new chapters

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Digital Human Modeling and Applications in Health, Safety, Ergonomics and Risk Management.

Posture, Motion and Health Vincent G. Duffy, 2020-07-10 This two volume set LNCS 12198 and 12199 constitutes the thoroughly refereed proceedings of the 11th International Conference on Digital Human Modeling and Applications in Health Safety Ergonomics and Risk Management DHM 2020 which was supposed to be held as part of the 22st HCI International Conference HCII 2020 in Copenhagen Denmark in July 2020 The conference was held virtually due to the COVID 19 pandemic A total of 1439 papers and 238 posters have been carefully reviewed and accepted for publication in HCII 2020

DHM 2020 includes a total of 77 papers they were organized in topical sections named Part I Posture Motion and Health Posture and motion modelling in design ergonomics and occupational health applications for exercising physical therapy and rehabilitation health services DHM for aging support Part II Human Communication Organization and Work Modelling human communication modelling work collaboration and the human environment addressing ethical and societal challenges new research issues and approaches in digital human modelling

Essentials of Breast Surgery: A Volume in the Surgical Foundations Series E-Book Michael S. Sabel, 2009-04-23 This new volume in the Surgical Foundations series delivers need to know current information in breast surgery in an exceptionally economical and user friendly format Coverage encompasses everything from anatomy and physiology evaluation of breast symptoms to discussions of breast cancer risk and management of breast cancer equipping you to face any challenge with confidence Whether reviewing key material in preparation for a procedure or studying for the boards this is an invaluable resource in training and practice Presents coverage that encompasses anatomy and physiology evaluation of breast symptoms breast cancer risk and management of breast cancer to equip you to face any challenge with confidence Addresses hot topics including gynecomastia neoadjuvant therapy management of ductal carcinoma in situ and Paget s disease risk assessment and genetic testing breast MRI partial breast irradiation microarray analysis and targeted therapies providing you with a current perspective on this fast changing field Begins each chapter with a bulleted list of key points and presents crucial facts in boxes to help facilitate review Features abundant illustrations photographs and tables that clarify complex concepts Follows a concise logical and consistent organization that makes the material easy to review

Hysteroscopy: Office Evaluation and Management of the Uterine Cavity E-Book Linda D. Bradley, Tommaso Falcone, 2008-07-21 This new text presents authoritative in depth coverage of hysteroscopy a quick in office procedure for an accurate diagnosis of abnormal vaginal bleeding uterine adhesions foreign bodies uterine structural defects anatomic defects and infertility More than 380 full color images provide a real life practice perspective of the conditions you ll encounter This procedure enables you to take a direct view of any pathology without the risk of radiation exposure and decreases the chances of uterine perforation Chapters encompass a full range of clinical considerations including instrumentation imaging complications and endometrial ablation Consult this title on your favorite e reader with intuitive search tools and adjustable font sizes Elsevier eBooks provide instant portable access to your entire library no matter what device you re using or where you re located Provides chapters that detail the instrumentation you ll need to effectively perform hysteroscopic procedures Features a full chapter on imaging including saline infusion sonography keeping you current on the latest imaging technology Offers expert guidance on endometrial ablation a frequent office procedure used to diagnose and treat abnormal bleeding Presents coverage of diagnostic and operative hysteroscopy enabling you to incorporate this technology of increasing clinical use into your practice Features a color design with more than 380 full color images that highlight techniques and equip you with a real life

practice perspective *Data Science, AI, and Machine Learning in Drug Development* Harry Yang, 2022-10-03 The confluence of big data artificial intelligence AI and machine learning ML has led to a paradigm shift in how innovative medicines are developed and healthcare delivered To fully capitalize on these technological advances it is essential to systematically harness data from diverse sources and leverage digital technologies and advanced analytics to enable data driven decisions Data science stands at a unique moment of opportunity to lead such a transformative change Intended to be a single source of information Data Science AI and Machine Learning in Drug Research and Development covers a wide range of topics on the changing landscape of drug R D emerging applications of big data AI and ML in drug development and the build of robust data science organizations to drive biopharmaceutical digital transformations Features Provides a comprehensive review of challenges and opportunities as related to the applications of big data AI and ML in the entire spectrum of drug R D Discusses regulatory developments in leveraging big data and advanced analytics in drug review and approval Offers a balanced approach to data science organization build Presents real world examples of AI powered solutions to a host of issues in the lifecycle of drug development Affords sufficient context for each problem and provides a detailed description of solutions suitable for practitioners with limited data science expertise

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